

PHARMACEUTICAL ANALYSIS – I

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Explain the common ion effect.
 - (b) Write the theory and solvents used in Non Aqueous Titrations.
 - (c) Define the term Iodometry and Iodimetry with example.
 - (d) Explain in brief Masking and Demasking in complexometric titrations.
 - (e) Write a note on EMF curve.
 - (f) Enumerate the different types of electrodes used in potentiometry.
 - (g) Mention the applications of refractometry.
 - (h) Write the principle involved in Thermo gravimetric analysis.
 - (i) Write a note on Adsorbents used in column chromatography.
 - (j) Write a brief note on 2D technique used in Thin Layer Chromatography.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Write in detail about solubility product and various indicators used in neutralization titrations.

OR

- 3 Explain the principle, procedure for analysis of any two drugs as per IP 2007 in Non aqueous titrations.

UNIT – II

- 4 Explain in detail Mohr's method in precipitation method.

OR

- 5 Write the principle and procedure for analysis of any two drugs as per IP 2010 in complexometric titrations.

UNIT – III

- 6 Explain the principle, apparatus and different currents involved in Polarography.

OR

- 7 Explain in detail titration curves and applications of Amperometric titrations.

UNIT – IV

- 8 Explain the principle and apparatus of DSC and TGA.

OR

- 9 Explain the principle, instrumentation and applications in IP 2010 in Refractometry.

UNIT – V

- 10 Explain the principle involved and preparation of plates and add a note on detection techniques used in Thin layer chromatography.

OR

- 11 Write a note on Adsorption and partition theory and add a note on HETP.
